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APPLICANT : TOHKEM PROD:KK;

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TITLE : PRODUCTION OF HIGH PURITY TITANIUM OXIDE POWDER

ABSTRACT : PURPOSE: To reduce Nb content by dissolving Nb as an impurity in titanyl sulfate contained in an aq. soln. of titanium sulfate, precipitating titanium hydroxide by hydrolysis and then separating and calcining the titanium hydroxide.

CONSTITUTION: The concn. of Ti in an aq. soln. of titanium sulfate contg. titanyl sulfate is adjusted to 10-120g/l and the concn. of sulfuric acid in the aq. soln. is adjusted to 500-900g/l (expressed in terms of H₂SO₄) by dilution or by adding sulfuric acid to dissolve ≥98% of Nb as an impurity in the aq. soln. Titanyl sulfate is then precipitated, dissolved in water and hydrolyzed under heating to precipitate titanium hydroxide. This titanium hydroxide is separated and calcined at ≥600°C.

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